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1 A rule-based framework for role-based delegation and revocation   ■
Longhua Zhang, Gail-Joon Ahn, Bei-Tseng Chu
August 2003 **ACM Transactions on Information and System Security (TISSEC)**, Volume 6 Issue 3
Full text available: 📄 pdf(1.05 MB)   Additional Information: full citation, abstract, references, index terms

Delegation is the process whereby an active entity in a distributed environment authorizes another entity to access resources. In today's distributed systems, a user often needs to act on another user's behalf with some subset of his/her rights. Most systems have attempted to resolve such delegation requirements with ad-hoc mechanisms by compromising existing disorganized policies or simply attaching additional components to their applications. Still, there is a strong need in the large, distrib ...

Keywords: Role, access control, delegation, revocation, rule-based

2 Authentication in the Taos operating system   ■
Edward Wobber, Martín Abadi, Michael Burrows, Butler Lampson
February 1994 **ACM Transactions on Computer Systems (TOCS)**, Volume 12 Issue 1
Full text available: 📄 pdf(1.88 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We describe a design for security in a distributed system and its implementation. In our design, applications gain access to security services through a narrow interface. This interface provides a notion of identity that includes simple principals, groups, roles, and delegations. A new operating system component manages principals, credentials, and secure channels. It checks credentials according to the formal rules of a logic of authentication. Our implementation is efficient enough to sup ...

Keywords: cryptography, mathematical logic

3 RBAC support in object-oriented role databases   ■
Raymond K. Wong
November 1997 **Proceedings of the second ACM workshop on Role-based access control**
Full text available: 📄 pdf(1.45 MB)   Additional Information: full citation, references, citings, index terms

Keywords: database security, object-oriented role database, role-based access control

4 MULTISAFE—a modular multiprocessing approach to secure database management

Robert P. Trueblood, H. Rex Hartson, Johannes J. Martin
September 1983 **ACM Transactions on Database Systems (TODS)**, Volume 8 Issue 3

Full text available: pdf(2.00 MB)   Additional Information: full citation, abstract, references, index terms

This paper describes the configuration and intermodule communication of a MULTImodule system for supporting Secure Authorization with Full Enforcement (MULTISAFE) for database management. A modular architecture is described which provides secure, controlled access to shared data in a multiuser environment, with low performance penalties, even for complex protection policies. The primary mechanisms are structured and verifiable. The entire approach is immediately extendible to distributed pr ...

Keywords: abstract data types, access control, back-end database, intermodule communication, secure database

5 A model of OASIS role-based access control and its support for active security

Jean Bacon, Ken Moody, Walt Yao
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Full text available: pdf(352.06 KB)   Additional Information: full citation, abstract, references, citings, index terms

OASIS is a role-based access control architecture for achieving secure interoperation of services in an open, distributed environment. The aim of OASIS is to allow autonomous management domains to specify their own access control policies and to interoperate subject to service level agreements (SLAs). Services define roles and implement formally specified policy to control role activation and service use; users must present the required credentials, in an appropriate context, in order to activat ...

Keywords: Certificates, OASIS, RBAC, distributed systems, policy, role-based access control, service-level agreements

6 An access control model for video database systems

Elisa Bertino, Moustafa A. Hammad, Walid G. Aref, Ahmed K. Elmagarmid
November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available: pdf(292.78 KB)   Additional Information: full citation, references, citings, index terms

7 E-P3P privacy policies and privacy authorization

Paul Ashley, Satoshi Hada, Günter Karjoth, Matthias Schunter
November 2002 **Proceeding of the ACM workshop on Privacy in the Electronic Society**

Full text available: pdf(146.35 KB)   Additional Information: full citation, abstract, references, index terms

Enterprises collect large amounts of personal data from their customers. To ease privacy concerns, enterprises publish privacy statements that outline how data is used and shared. The Platform for Enterprise Privacy Practices (E-P3P) defines a fine-grained privacy policy model. A Chief Privacy Officer can use E-P3P to formalize the desired enterprise-internal handling of collected data. A particular data user is then allowed to use certain collected data for a given purpose if and only if the E- ...

Keywords: E-P3P, privacy manager, privacy policies

8 National id card: the next generation: The US/Mexico border crossing card (BCC): a case study in biometric, machine-readable id

Andrew Schulman

April 2002 **Proceedings of the 12th annual conference on Computers, freedom and privacy**

Full text available: htm(187.31 KB)   Additional Information: full citation, index terms

9 A flexible authorization mechanism for relational data management systems

Elisa Bertino, Sushil Jajodia, Pierangela Samarati

April 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 2

Full text available: pdf(257.56 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

In this article, we present an authorization model that can be used to express a number of discretionary access control policies for relational data management systems. The model permits both positive and negative authorizations and supports exceptions at the same time. The model is flexible in that the users can specify, for each authorization they grant, whether the authorization can allow for exceptions or whether it must be strongly obeyed. It provides authorization management for group ...

Keywords: access control mechanism, access control policy, authorization, data management system, group management support, relational database

10 E-services: a look behind the curtain

Richard Hull, Michael Benedikt, Vassilis Christophides, Jianwen Su

June 2003 **Proceedings of the twenty-second ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems**

Full text available: pdf(269.51 KB)   Additional Information: full citation, abstract, references, index terms

The emerging paradigm of electronic services promises to bring to distributed computation and services the flexibility that the web has brought to the sharing of documents. An understanding of fundamental properties of e-service composition is required in order to take full advantage of the paradigm. This paper examines proposals and standards for e-services from the perspectives of XML, data management, workflow, and process models. Key areas for study are identified, including behavioral servi ...

11 P-MIP: paging extensions for mobile IP

Xiaowei Zhang, Javier Gomez Castellanos, Andrew T. Campbell

April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2

Full text available: pdf(272.68 KB)   Additional Information: full citation, abstract, references, index terms

As the number of Mobile IP users grows, so will the signalling overhead associated with Internet mobility management in the core IP network. This presents a significant challenge to Mobile IP as the number of mobile devices scale-up. In cellular networks, registration and paging techniques are used to minimize the signalling overhead and optimize the mobility management performance. Currently, Mobile IP supports registration but not paging. In this paper, we argue that Mobile IP should be extend ...

Keywords: Mobile IP, mobility management, paging

12 Static analysis techniques for predicting the behavior of active database rules

Alexander Aiken, Joseph M. Hellerstein, Jennifer Widom

March 1995 **ACM Transactions on Database Systems (TODS)**, Volume 20 Issue 1

Full text available: pdf(2.79 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

This article gives methods for statically analyzing sets of active database rules to determine if the rules are (1) guaranteed to terminate, (2) guaranteed to produce a unique final database state, and (3) guaranteed to produce a unique stream of observable actions. If the analysis determines that one of these properties is not guaranteed, it isolates the rules responsible for the problem and determines criteria that, if satisfied, guarantee the property. The analysis methods are presented ...

Keywords: active database systems, confluence, database rule processing, static analysis, termination

13 ODE (Object Database and Environment): the language and the data model

R. Agrawal, N. H. Gehani

June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data**, Volume 18 Issue 2

Full text available: pdf(1.26 MB)   Additional Information: full citation, abstract, references, citings, index terms

ODE is a database system and environment based on the object paradigm. It offers one integrated data model for both database and general purpose manipulation. The database is defined, queried and manipulated in the database programming language O++ which is based on C++. O++ borrows and extends the object definition facility of C++, called the class. Classes support data encapsulation and multiple inheritance. We provide facilities for creating persistent and versioned objects, defining set ...

14 A predicate-based caching scheme for client-server database architectures

Arthur M. Keller, Julie Basu

January 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 1

Full text available: pdf(162.80 KB)   Additional Information: full citation, abstract, citings, index terms

We propose a new client-side data-caching scheme for relational databases with a central server and multiple clients. Data are loaded into each client cache based on queries executed on the central database at the server. These queries are used to form predicates that describe the cache contents. A subsequent query at the client may be satisfied in its local cache if we can determine that the query result is entirely contained in the cache. This issue is called *cache completeness*. A separ ...

Keywords: Cache completeness, Cache currency, Caching, Multiple clients, Relational databases

15 Logical foundations of object-oriented and frame-based languages

Michael Kifer, Georg Lausen, James Wu

July 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 4

Full text available: pdf(7.52 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

We propose a novel formalism, called Frame Logic (abbr., F-logic), that accounts in a clean and declarative fashion for most of the structural aspects of object-oriented and frame-

based languages. These features include object identity, complex objects, inheritance, polymorphic types, query methods, encapsulation, and others. In a sense, F-logic stands in the same relationship to the object-oriented paradigm as classical predicate calculus stands to relational programming. ...

Keywords: deductive databases, frame-based languages, logic programming, nonmonotonic inheritance, object-oriented programming, proof theory, semantics, typing

16 Secure and selective dissemination of XML documents

Elisa Bertino, Elena Ferrari

August 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 3

Full text available: pdf(678.34 KB)   Additional Information: full citation, abstract, references, index terms

XML (*eXtensible Markup Language*) has emerged as a prevalent standard for document representation and exchange on the Web. It is often the case that XML documents contain information of different sensitivity degrees that must be selectively shared by (possibly large) user communities. There is thus the need for models and mechanisms enabling the specification and enforcement of access control policies for XML documents. Mechanisms are also required enabling a secure and selective dissemina ...

Keywords: Access control, XML, secure distribution

17 System R: relational approach to database management

M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. King, R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson

June 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2

Full text available: pdf(3.18 MB)   Additional Information: full citation, abstract, references, citings, index terms

System R is a database management system which provides a high level relational data interface. The systems provides a high level of data independence by isolating the end user as much as possible from underlying storage structures. The system permits definition of a variety of relational views on common underlying data. Data control features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural language, recovery, relational model

18 Belief reasoning in MLS deductive databases

Hasan M. Jamil

June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international conference on Management of data**, Volume 28 Issue 2

Full text available: pdf(1.56 MB)   Additional Information: full citation, abstract, references, citings, index terms

It is envisaged that the application of the multilevel security (MLS) scheme will enhance flexibility and effectiveness of authorization policies in shared enterprise databases and will replace cumbersome authorization enforcement practices through complicated view definitions on a per user basis. However, as advances in this area are being made and ideas crystallized, the concomitant weaknesses of the MLS databases are also surfacing. We insist that the critical problem with the current mo ...

Keywords: MLS database, beleif assertion, deductive databases, inheritance and overriding, reasoning

19 Authentication in distributed systems: theory and practice

Butler Lampson, Martín Abadi, Michael Burrows, Edward Wobber
November 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 4

Full text available: pdf(3.37 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

We describe a theory of authentication and a system that implements it. Our theory is based on the notion of principal and a "speaks for" relation between principals. A simple principal either has a name or is a communication channel; a compound principal can express an adopted role or delegated authority. The theory shows how to reason about a principal's authority by deducing the other principals that it can speak for; authenticating a channel is one important application. We ...

Keywords: certification authority, delegation, group, interprocess communication, key distribution, loading programs, path name, principal, role, secure channel, speaks for, trusted computing base

20 The Format Model: A Theory of database Organization

Richard Hull, Chee K. Yap
June 1984 **Journal of the ACM (JACM)**, Volume 31 Issue 3

Full text available: pdf(1.09 MB)   Additional Information: full citation, references, citings, index terms, review

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